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(54) FIBER REINFORCED BASE MATERIAL AND ITS PRODUCTION, FIBER REINFORCED MATERIAL AND ITS PRODUCTION

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a fiber reinforced base material increased in strength to a large extent and a method for producing the same certainly and easily, and to provide a fiber reinforced material containing the fiber reinforced base material, and a method for producing the same certainly and easily.

SOLUTION: A fiber reinforced base material 11 is constituted by introducing flock fibers 16 into gaps 15 between warp and weft yarns 13, 14 on each of laminated fabrics 12 in the direction almost right-angled to the surface by each of the laminates by electrostatically flocking. A knitted fabric can be also used in

place of the fabric 12. As the flock fibers 16, it is most pref. to use carbon fibers with an aspect ratio of 10-2,500. A fiber reinforced material is obtained by pouring a raw material becoming a matrix in the base material 11 in such a state that the base material is contained in the raw material to cure the raw material. As the raw material, a synthetic resin such as an epoxy resin or the like, cement or a metal can be used but it is pref. to use the epoxy resin.

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